Rapise® | Quick Start Guide

Inflectra Corporation

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Introduction

Rapise® is a next generation software test automation tool that leverages the power of open architecture to improve application quality and reduce time to market.

This guide provides a quick step-by-step tutorial for creating a sample Rapise automated test against a web application and playing the results back.

For further information on using Rapise, please refer to the more comprehensive *Rapise User Guide*. For information on using Rapise in conjunction with our SpiraTest test management system, please refer to the *Using Rapise with SpiraTest Guide.*

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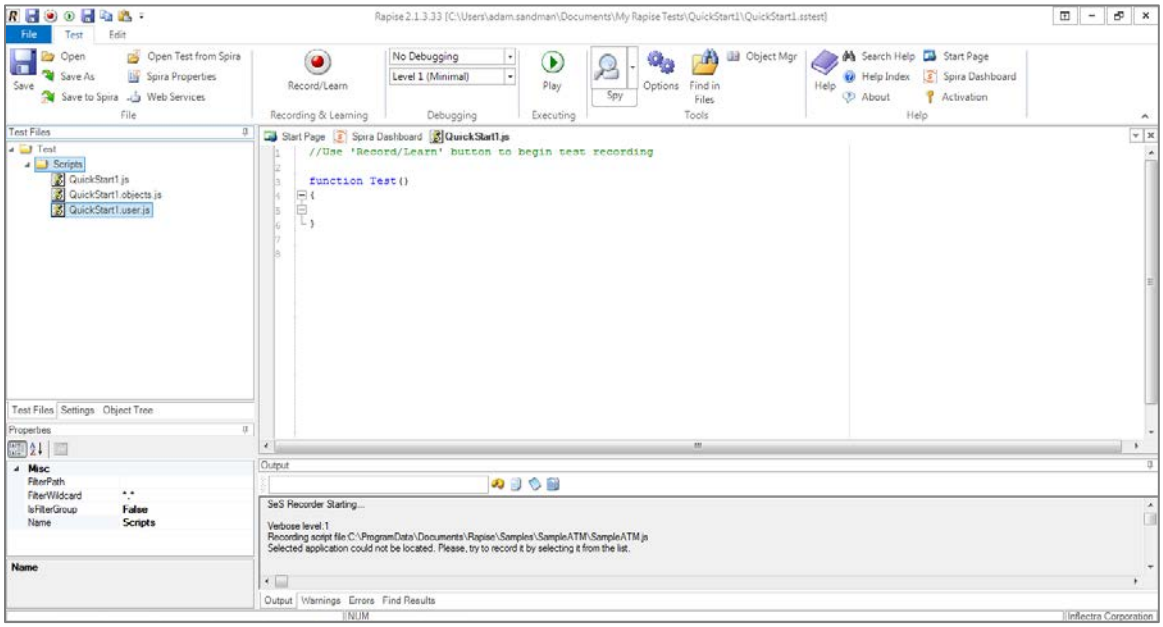
1. Recording Your First Script

In this section, you will learn how to record and execute a Rapise script. We will be using a demo web application called **Library Information System**. Our test will be simple. It will log on to the library catalog, navigate to the main menu, and click on all of the menu options to make sure the links are working.

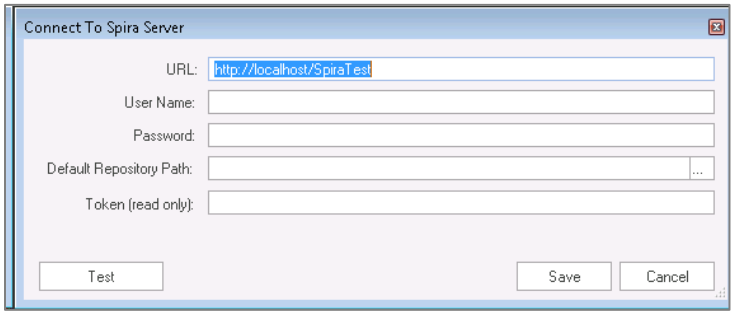
1.1. Open Rapise

Go to Start **>** All Programs **>** Inflectra **>** Rapise**.** The following window should appear:



Click on the **File** tab in main menu and then click on the option to 'Create New Test':

If this is your first time using Rapise on this computer, you may see the following dialog box:



If you see this, it means that Rapise is trying to connect to a SpiraTest server. SpiraTest is our web based test management system. It is a powerful tool that can store your Rapise tests and deploy them onto

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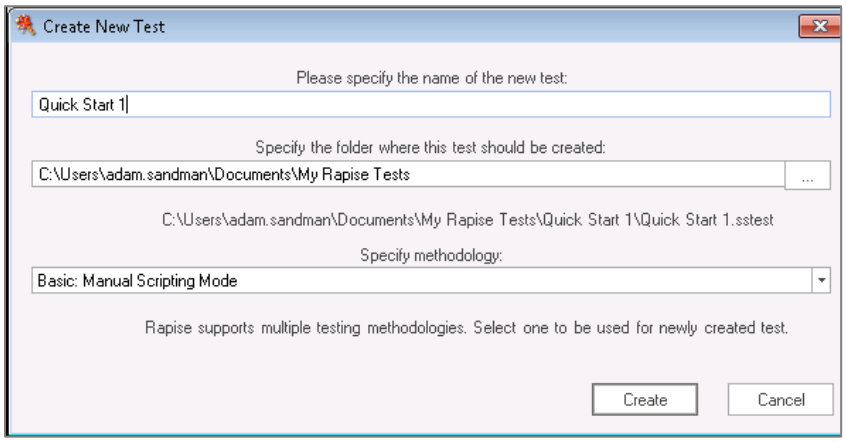
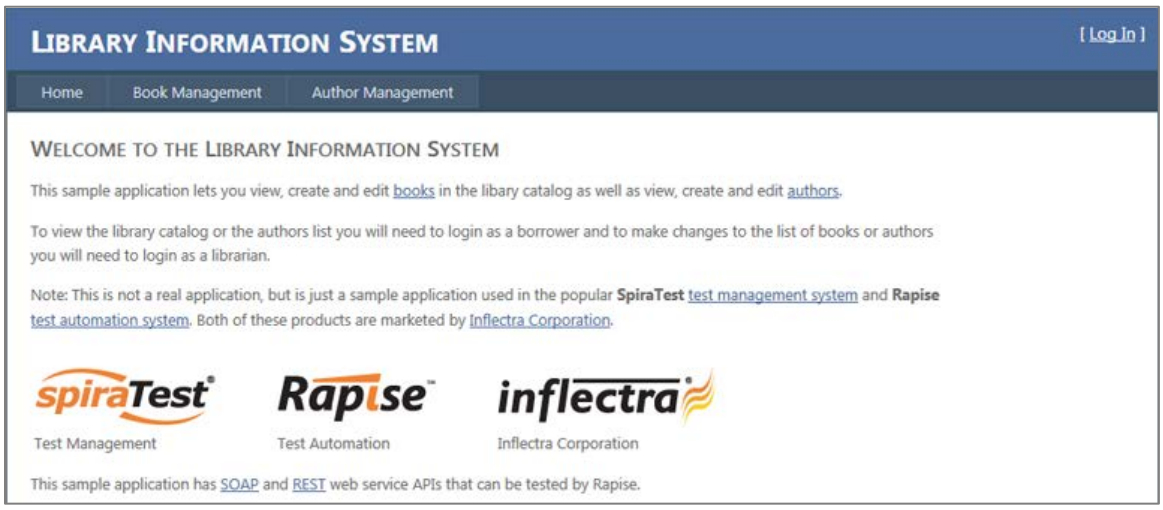
remote machines for automated regression testing. However, for now just click on the **[Cancel]** button and you will see the 'new test dialog':


Create New Test
Please specify the name of the new test:
Quick Start 1
Specify the folder where this test should be created:
C:\Users\adam.sandman\Documents\My Rapise Tests
...
C:\Users\adam.sandman\Documents\My Rapise Tests\Quick Start 1\Quick Start 1.sstest
Specify methodology:
Basic: Manual Scripting Mode
Rapise supports multiple testing methodologies. Select one to be used for newly created test.
Create
Cancel

Now enter the name of your new test 'Quick Start 1' and click **[Create]**. You are now ready to record your first test.

1.2. Opening the Application Under Test (AUT)

Open Internet Explorer. You will find it in **Start** > **All Programs** > **Internet Explorer**. In Internet Explorer, navigate to: http://www.libraryinformationsystem.org:


LIBRARY INFORMATION SYSTEM
[Log In]
Home
Book Management
Author Management
WELCOME TO THE LIBRARY INFORMATION SYSTEM
This sample application lets you view, create and edit books in the libary catalog as well as view, create and edit authors.
To view the library catalog or the authors list you will need to login as a borrower and to make changes to the list of books or authors you will need to login as a librarian.
Note: This is not a real application, but is just a sample application used in the popular SpiraTest test management system and Rapise test automation system. Both of these products are marketed by Inflectra Corporation.
spiraTest
Test Management
Rapise
Test Automation
inflectra
Inflectra Corporation
This sample application has SOAP and REST web service APIs that can be tested by Rapise.

Make sure your browser zoom is set to exactly 100% for recording and playback.

1.3. Starting the Recording Session

In the Rapise window, press the **Record/Learn** button on the Ribbon.

The Select an Application to Record (SAR) dialog box will open:

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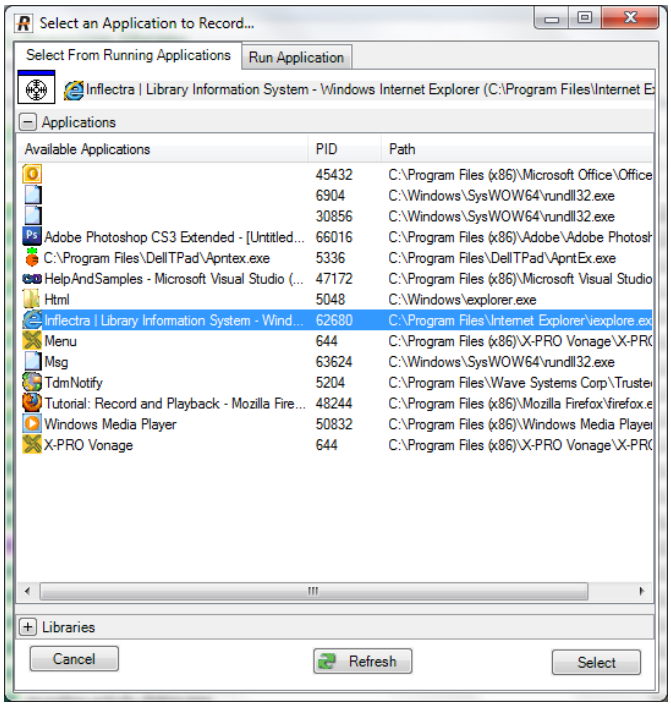
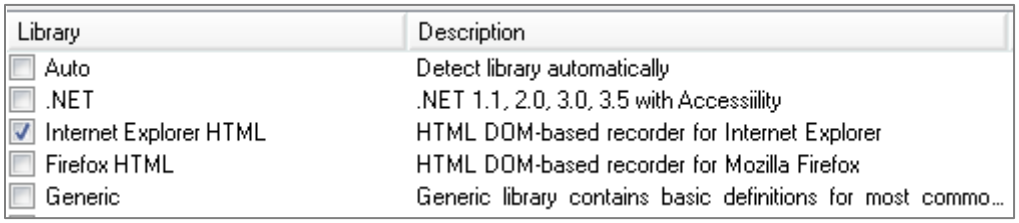
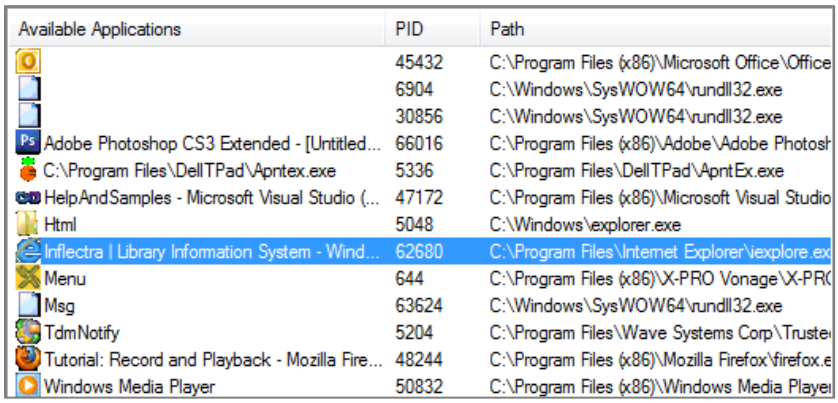

Select an Application to Record...
Select From Running Applications
Run Application
Inflectra | Library Information System - Windows Internet Explorer (C:\Program Files\Internet E
Applications
Available Applications
PID
Path
45432 C:\Program Files (x86)\Microsoft Office\Office
6904 C:\Windows\SysWOW64\rundll32.exe
30856 C:\Windows\SysWOW64\rundll32.exe
Adobe Photoshop CS3 Extended - [Untitled... 66016 C:\Program Files (x86)\Adobe\Adobe Photosh
C:\Program Files\DellTPad\Apntex.exe 5336 C:\Program Files\DellTPad\ApntEx.exe
HelpAndSamples - Microsoft Visual Studio (... 47172 C:\Program Files (x86)\Microsoft Visual Studio
Html 5048 C:\Windows\explorer.exe
Inflectra | Library Information System - Wind... 62680 C:\Program Files\Internet Explorer\iexplore.ex
Menu 644 C:\Program Files (x86)\X-PRO Vonage\X-PR(
Msg 63624 C:\Windows\SysWOW64\rundll32.exe
TdmNotify 5204 C:\Program Files\Wave Systems Corp\Truste
Tutorial: Record and Playback - Mozilla Fire... 48244 C:\Program Files (x86)\Mozilla Firefox\firefox.e
Windows Media Player 50832 C:\Program Files (x86)\Windows Media Player
X-PRO Vonage 644 C:\Program Files (x86)\X-PRO Vonage\X-PR(
Libraries
Cancel
Refresh
Select

There are two sections to the **SAR dialog**. In the bottom section, you select which Rapise library will be used during the recording session. Because we will be recording our interactions with Internet Explorer, make sure that the **Internet Explorer HTML** library is checked.

No other libraries should be selected. See below:



In the top section of the SAR dialog, we choose which application to record. Scroll down the available applications and click once on **Inflectra | Library Information System**, so that it is highlighted. Now, press the **Select** button near the bottom right of the dialog.


Available Applications
PID
Path
45432 C:\Program Files (x86)\Microsoft Office\Office
6904 C:\Windows\SysWOW64\rundll32.exe
30856 C:\Windows\SysWOW64\rundll32.exe
Adobe Photoshop CS3 Extended - [Untitled... 66016 C:\Program Files (x86)\Adobe\Adobe Photosh
C:\Program Files\DellTPad\Apntex.exe 5336 C:\Program Files\DellTPad\ApntEx.exe
HelpAndSamples - Microsoft Visual Studio (... 47172 C:\Program Files (x86)\Microsoft Visual Studio
Html 5048 C:\Windows\explorer.exe
Inflectra | Library Information System - Wind... 62680 C:\Program Files\Internet Explorer\iexplore.ex
Menu 644 C:\Program Files (x86)\X-PRO Vonage\X-PR(
Msg 63624 C:\Windows\SysWOW64\rundll32.exe
TdmNotify 5204 C:\Program Files\Wave Systems Corp\Truste
Tutorial: Record and Playback - Mozilla Fire... 48244 C:\Program Files (x86)\Mozilla Firefox\firefox.e
Windows Media Player 50832 C:\Program Files (x86)\Windows Media Player

The Recording Activity (RA) dialog box will appear:

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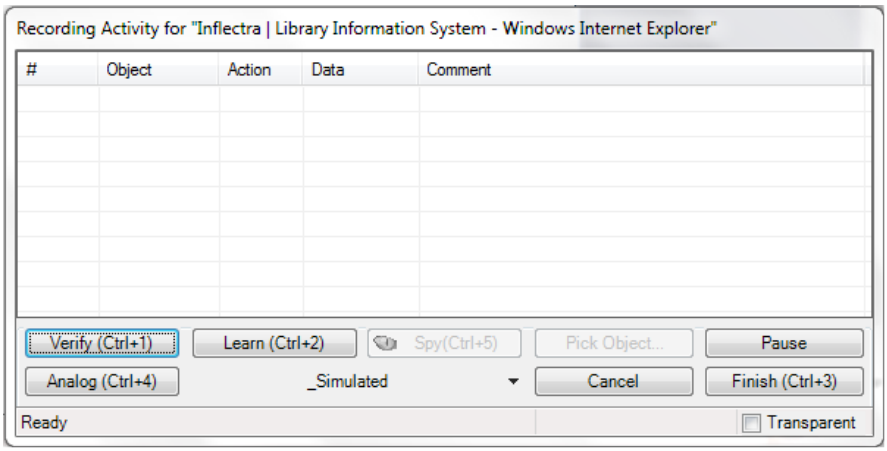
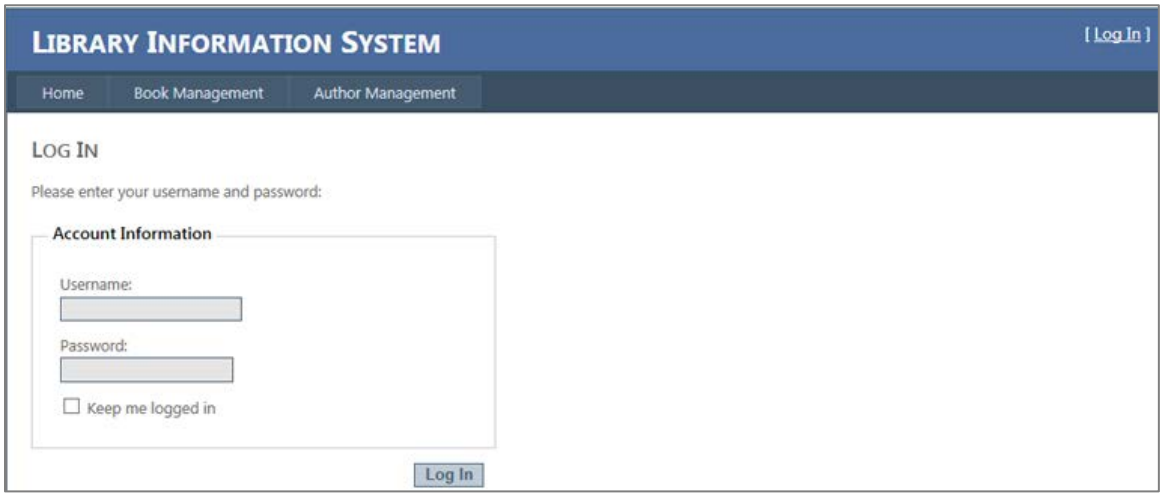


The **RA dialog** has a grid. As you interact with the Library Information System program, the grid will automatically populate with your actions.

1.4. Recording the User Interactions

Let's begin creating the test. On the library information system login page, click on the **Log In** link in the top-right of the screen:



In the username text box, type *librarian*

Press the tab key. You'll notice that the **RA dialog** has changed. Your actions, clicking Log-In and entering a username, are listed in the grid:

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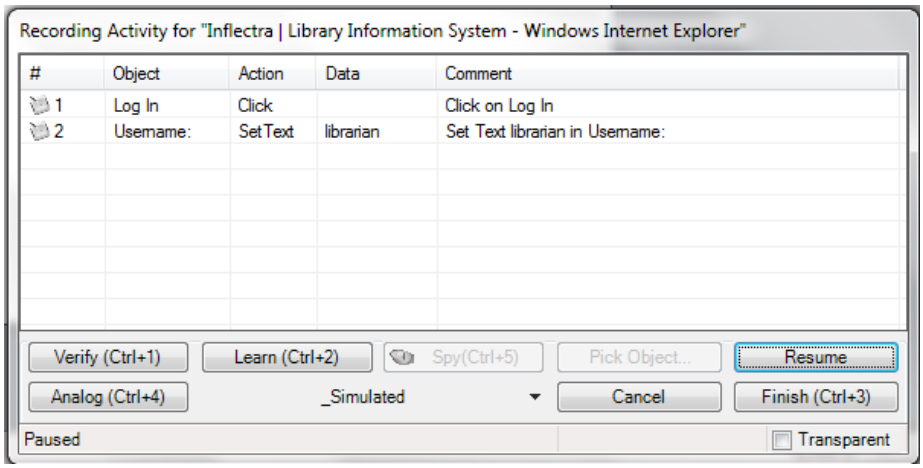
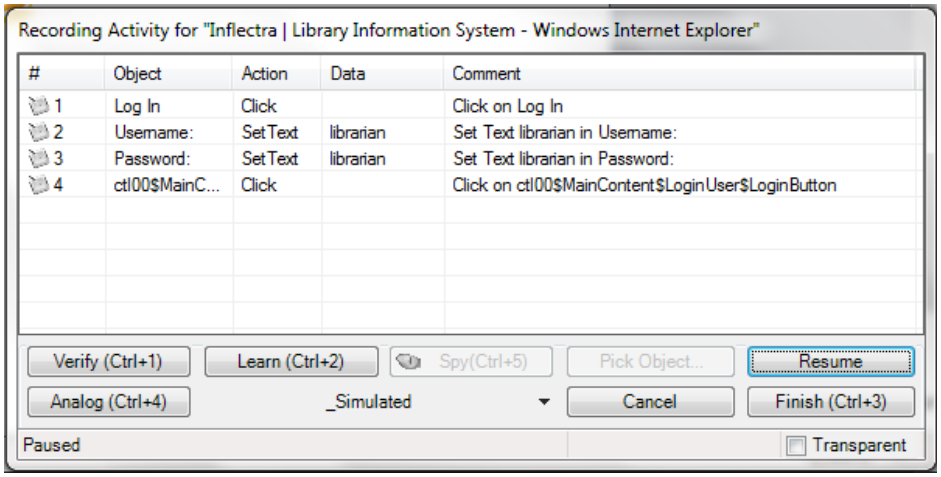
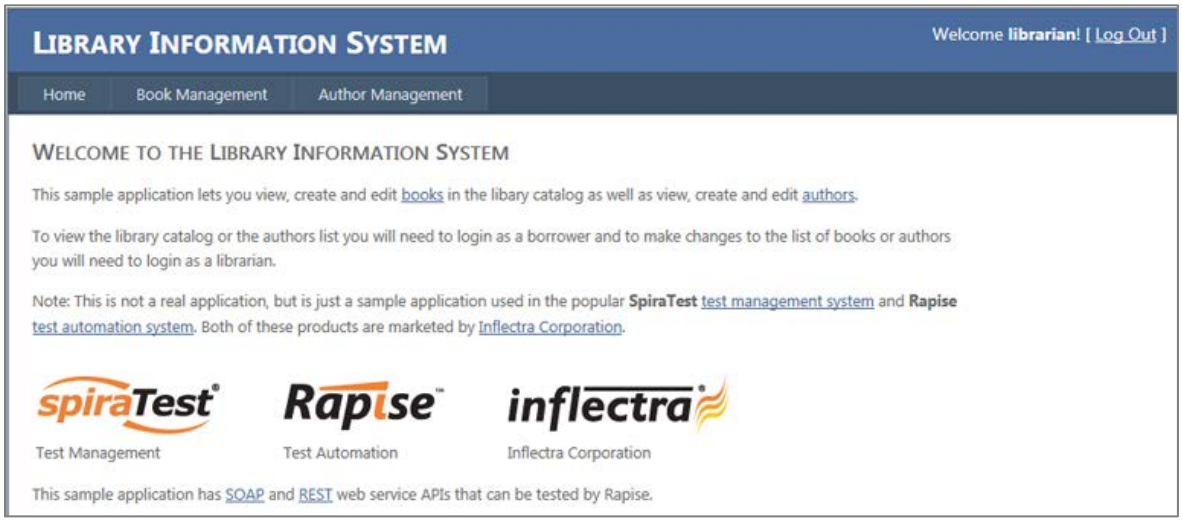


The password for user librarian is also *librarian*. Type the password in and then press the **Log-In** button. Two more rows should appear in the **RA dialog**: one to represent the password entry, and one to represent the button click:



You should now be on the main menu of the Library Information System with the user's name listed in the top-right:


LIBRARY INFORMATION SYSTEM
Welcome librarian! [Log Out]
Home
Book Management
Author Management
WELCOME TO THE LIBRARY INFORMATION SYSTEM
This sample application lets you view, create and edit books in the libary catalog as well as view, create and edit authors.
To view the library catalog or the authors list you will need to login as a borrower and to make changes to the list of books or authors you will need to login as a librarian.
Note: This is not a real application, but is just a sample application used in the popular SpiraTest test management system and Rapise test automation system. Both of these products are marketed by Inflectra Corporation.
spiraTest
Test Management
Rapise
Test Automation
inflectra
Inflectra Corporation
This sample application has SOAP and REST web service APIs that can be tested by Rapise.

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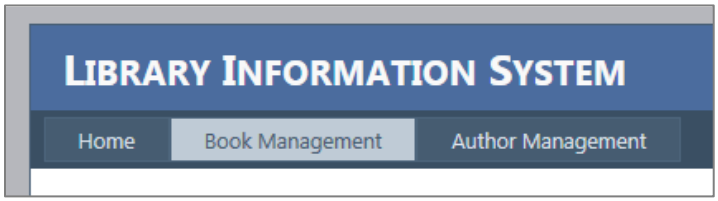
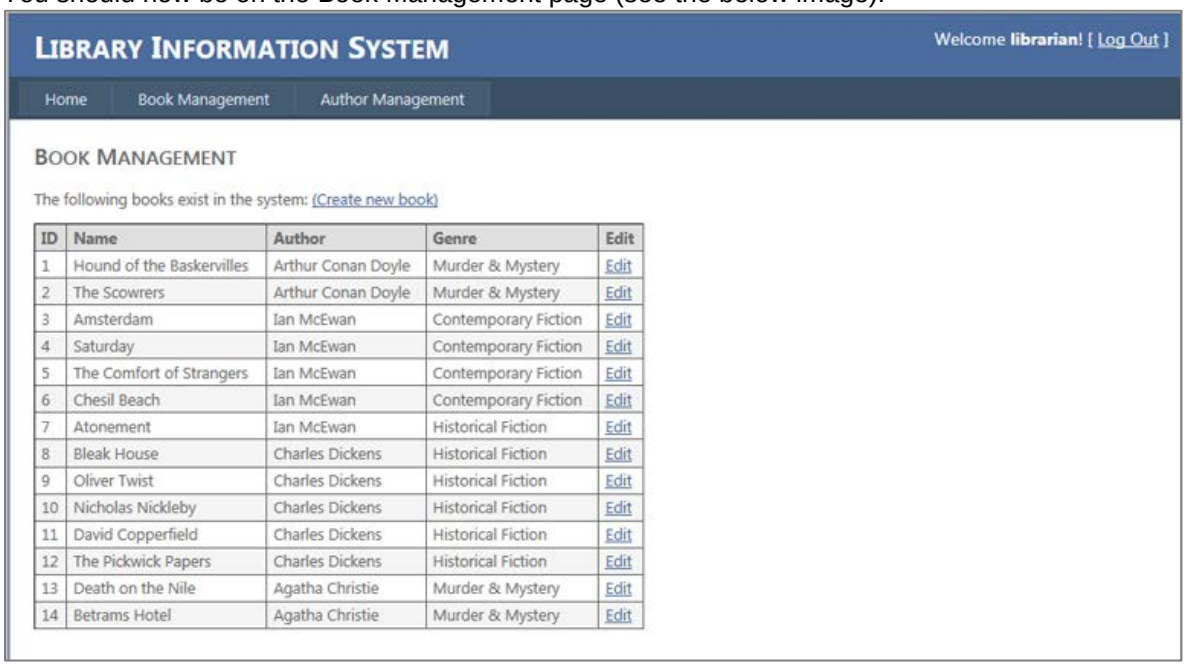
Click the **Book Management** button. It is highlighted in the next screenshot:

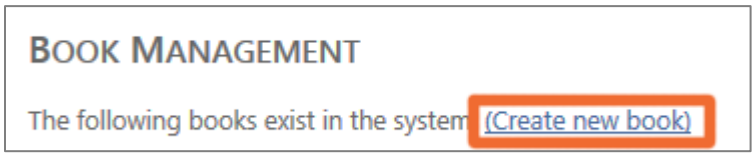


You should now be on the Book Management page (see the below image).



ID	Name	Author	Genre	Edit
1	Hound of the Baskervilles	Arthur Conan Doyle	Murder & Mystery	Edit
2	The Scowrers	Arthur Conan Doyle	Murder & Mystery	Edit
3	Amsterdam	Ian McEwan	Contemporary Fiction	Edit
4	Saturday	Ian McEwan	Contemporary Fiction	Edit
5	The Comfort of Strangers	Ian McEwan	Contemporary Fiction	Edit
6	Chesil Beach	Ian McEwan	Contemporary Fiction	Edit
7	Atonement	Ian McEwan	Historical Fiction	Edit
8	Bleak House	Charles Dickens	Historical Fiction	Edit
9	Oliver Twist	Charles Dickens	Historical Fiction	Edit
10	Nicholas Nickleby	Charles Dickens	Historical Fiction	Edit
11	David Copperfield	Charles Dickens	Historical Fiction	Edit
12	The Pickwick Papers	Charles Dickens	Historical Fiction	Edit
13	Death on the Nile	Agatha Christie	Murder & Mystery	Edit
14	Betrams Hotel	Agatha Christie	Murder & Mystery	Edit

Click the **Create new book** link:



You should now be on the Create New Book page (see image below). Click the **HOME** button to go back to the main menu.

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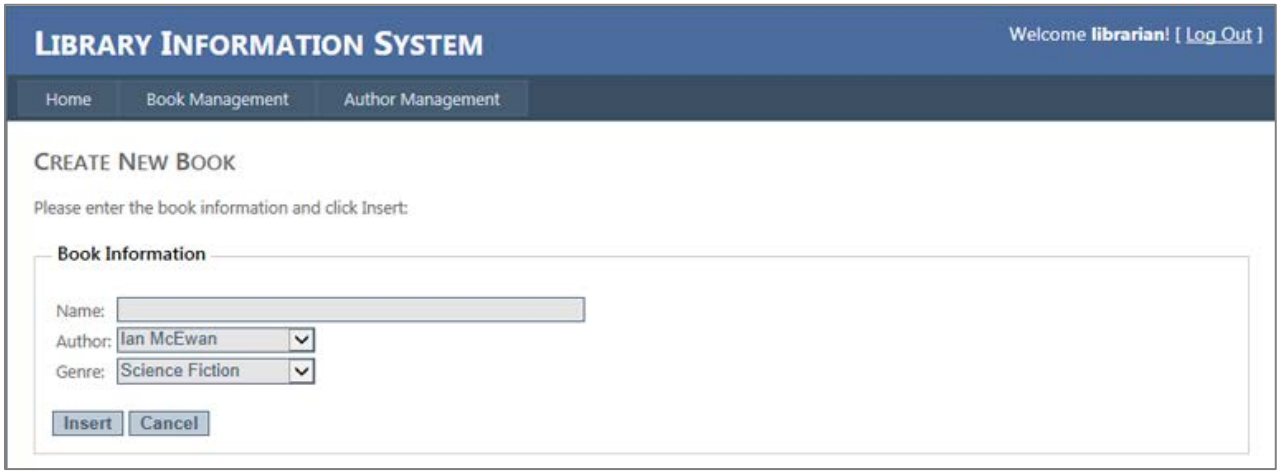
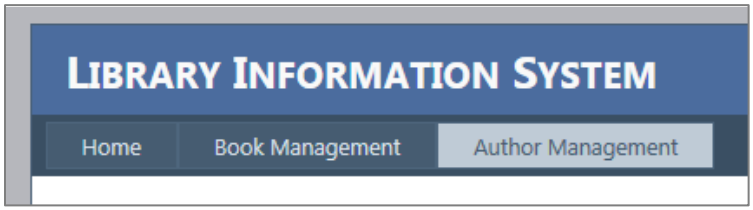
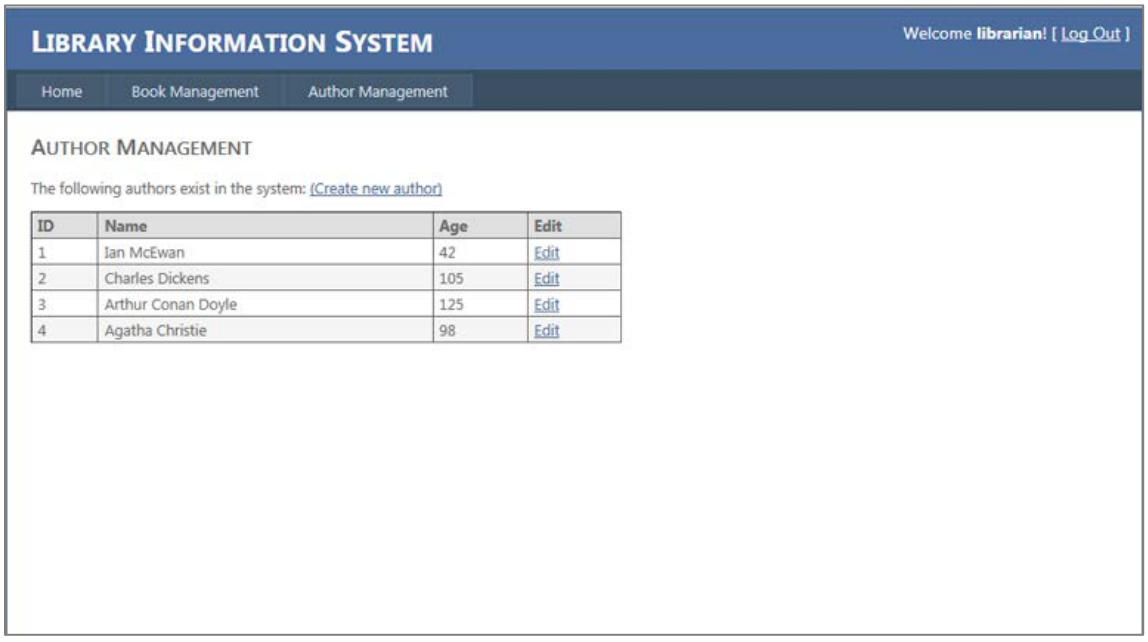


Now, click the **Author Management** button:



You should now be on the Author Management page (see image below):



Click the **Create New Author** link:

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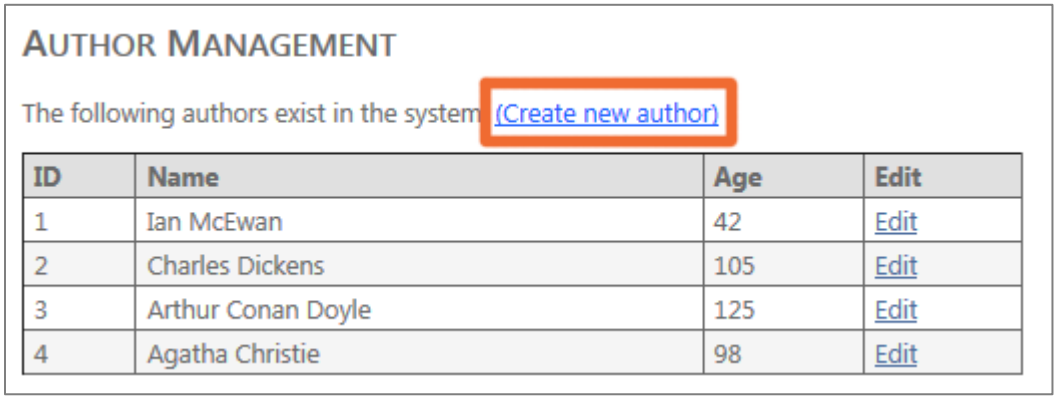
AUTHOR MANAGEMENT
The following authors exist in the system (Create new author)
ID Name Age Edit
1 Ian McEwan 42 Edit
2 Charles Dickens 105 Edit
3 Arthur Conan Doyle 125 Edit
4 Agatha Christie 98 Edit

You should now be on the Create New Author page (see below). Click the **Home** button to go back to the main menu.

At this point, there should be approximately ten rows in the **RA dialog** grid.

You are now back on the Main Menu. Click **Log Out** (top-right).

LIBRARY INFORMATION SYSTEM
Welcome librarian! [Log Out]
Home
Book Management
Author Management
WELCOME TO THE LIBRARY INFORMATION SYSTEM
This sample application lets you view, create and edit books in the libary catalog as well as view, create and edit authors.
To view the library catalog or the authors list you will need to login as a borrower and to make changes to the list of books or authors you will need to login as a librarian.
Note: This is not a real application, but is just a sample application used in the popular SpiraTest test management system and Rapise test automation system. Both of these products are marketed by Inflectra Corporation.
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Test Management
Rapise
Test Automation
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To end the recording session, you can either press **CTRL+3** or press the **Finish** button on the Record dialog. End the recording session now. You will see a script created from your recording session in the Rapise window. Let's save our test. Press the **Save** button at the top left of the Rapise window.

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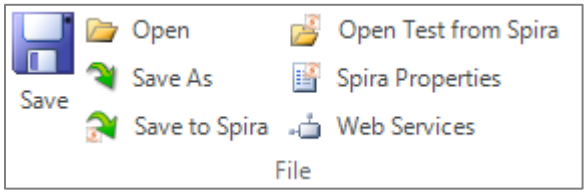
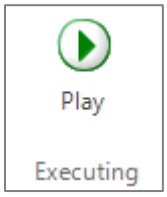


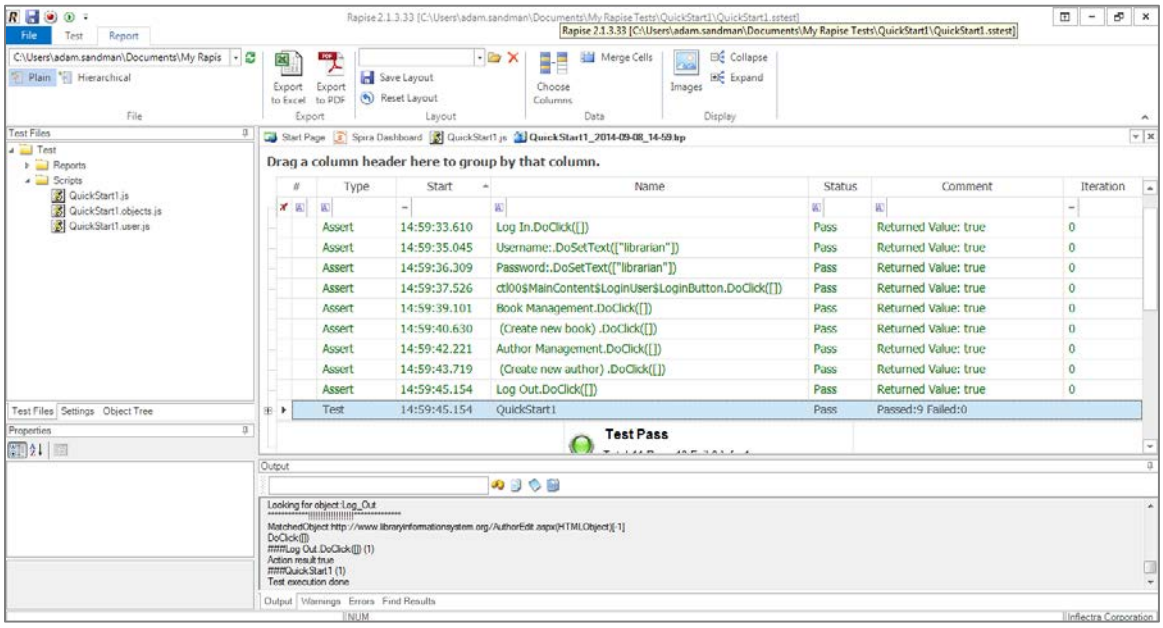
1.5. Playback of the Record Actions

Let's execute the test we just created. First, close Internet explorer. Rapise will open a new instance of Internet Explorer to the correct URL (www.libraryinformationsystem.org) when the test begins.

To execute the script, press the Play button at the top middle of the Rapise window.



After execution, a screen like the one below will appear. Each row represents a step in the test. The rows with green text are steps which passed, whereas the rows with red text are the steps which failed.



Congratulations… You have just recorded and played-back your first automated test script using Rapise.

The next section will demonstrate how you can use Rapise to inspect the objects in a web page and Learn them for testing. This is useful in cases where you have more complex applications to test and you need to pick specific objects. For example you may want to select one of the books in the grid based on its name rather than its row number (which may change if you add books).

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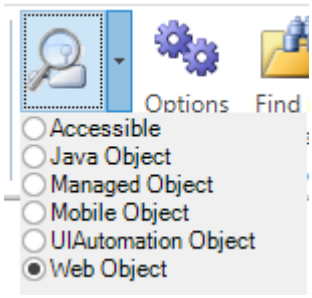
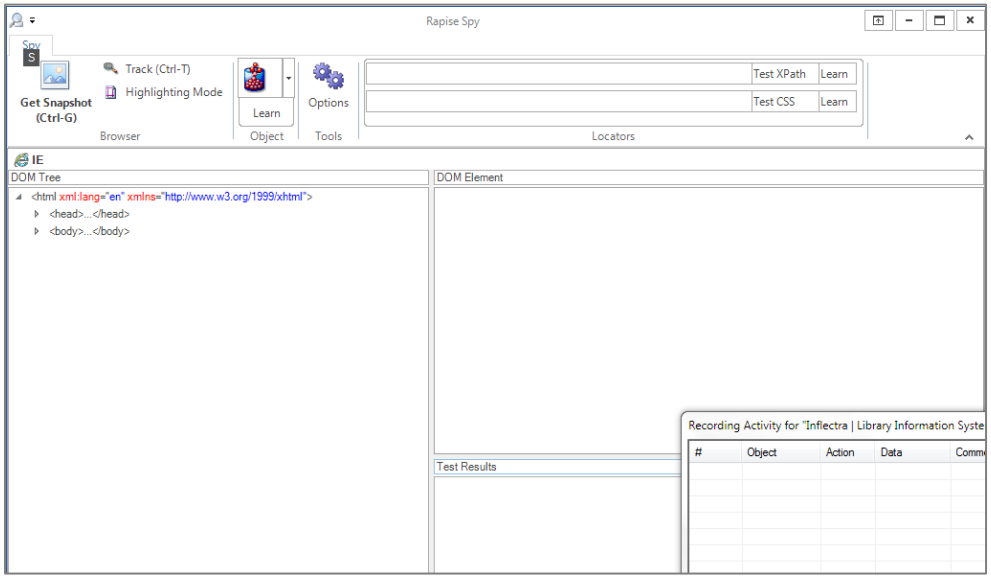
2. Using the Spy Tools in Rapise

2.1. Learning an Object Using the Web Spy

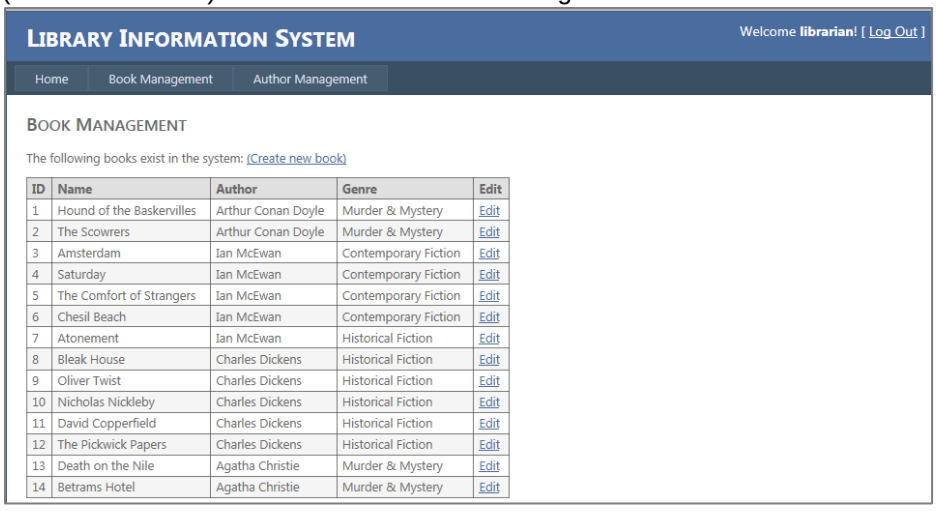
In the main Test ribbon of Rapise, expand the dropdown list for the **'Spy**' tool and make sure that 'Web Object' is selected:



Now, click on the main 'Spy' tool icon and Rapise will start the Web Spy:



Go back to the web page and login to the library information system with the same login/password (librarian/librarian) and click on the 'Book Management' menu item so that the list of books is displayed:



ID	Name	Author	Genre	Edit
1	Hound of the Baskervilles	Arthur Conan Doyle	Murder & Mystery	Edit
2	The Scowrers	Arthur Conan Doyle	Murder & Mystery	Edit
3	Amsterdam	Ian McEwan	Contemporary Fiction	Edit
4	Saturday	Ian McEwan	Contemporary Fiction	Edit
5	The Comfort of Strangers	Ian McEwan	Contemporary Fiction	Edit
6	Chesil Beach	Ian McEwan	Contemporary Fiction	Edit
7	Atonement	Ian McEwan	Historical Fiction	Edit
8	Bleak House	Charles Dickens	Historical Fiction	Edit
9	Oliver Twist	Charles Dickens	Historical Fiction	Edit
10	Nicholas Nickleby	Charles Dickens	Historical Fiction	Edit
11	David Copperfield	Charles Dickens	Historical Fiction	Edit
12	The Pickwick Papers	Charles Dickens	Historical Fiction	Edit
13	Death on the Nile	Agatha Christie	Murder & Mystery	Edit
14	Betrams Hotel	Agatha Christie	Murder & Mystery	Edit

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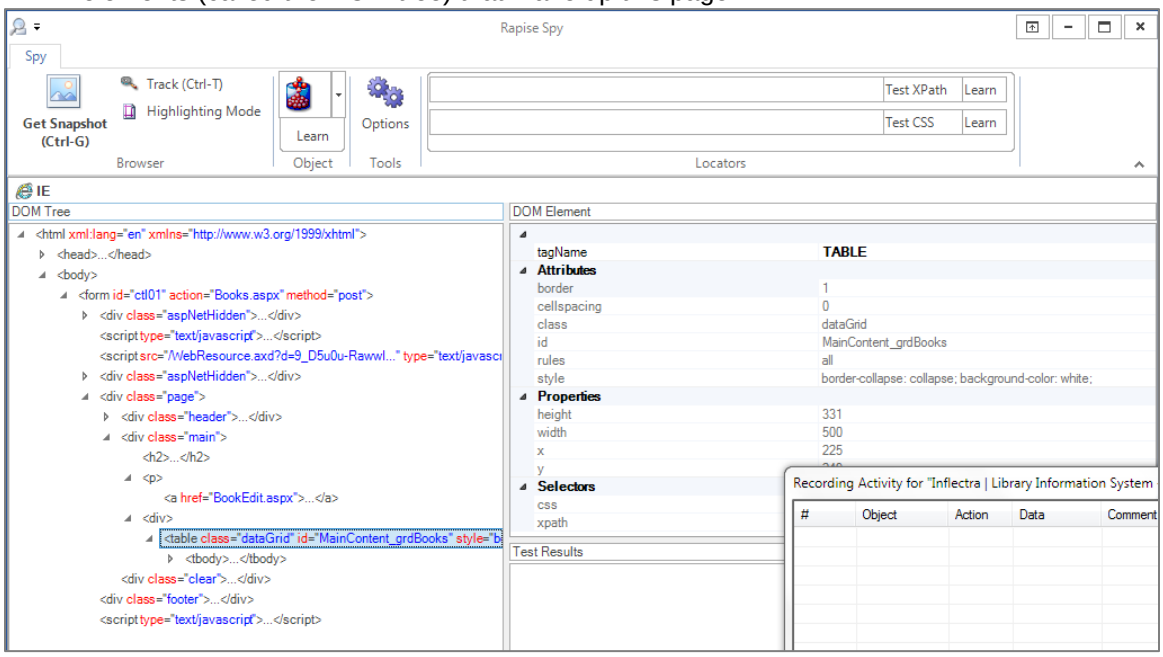
Now back in the Web Spy, click on the 'Get Snapshot' option to refresh the Web Spy and display the HTML elements (called the DOM tree) that make up this page:



Once it has loaded the DOM tree, you can expand/collapse the elements to see how the web page is constructed. This is useful when testing an application since many of the HTML elements on a page may be used for layout purposes and will not be visible in the browser. In the example page, we have expanded some of the nodes to display the main section of the page and the table that contains the list of books.

In addition, you can use the **Track (Ctrl+T)** tool to select and item in the web page and then have it be highlighted in the DOM tree. For example if we want to find the cell that contains the book title "Amsterdam", simply click CTRL+T on the keyboard, move the mouse over the cell in the webpage**, wait until the red highlighting rectangle appears** and then click CTRL+T again. Rapise will now highlight that item in the DOM Tree automatically:

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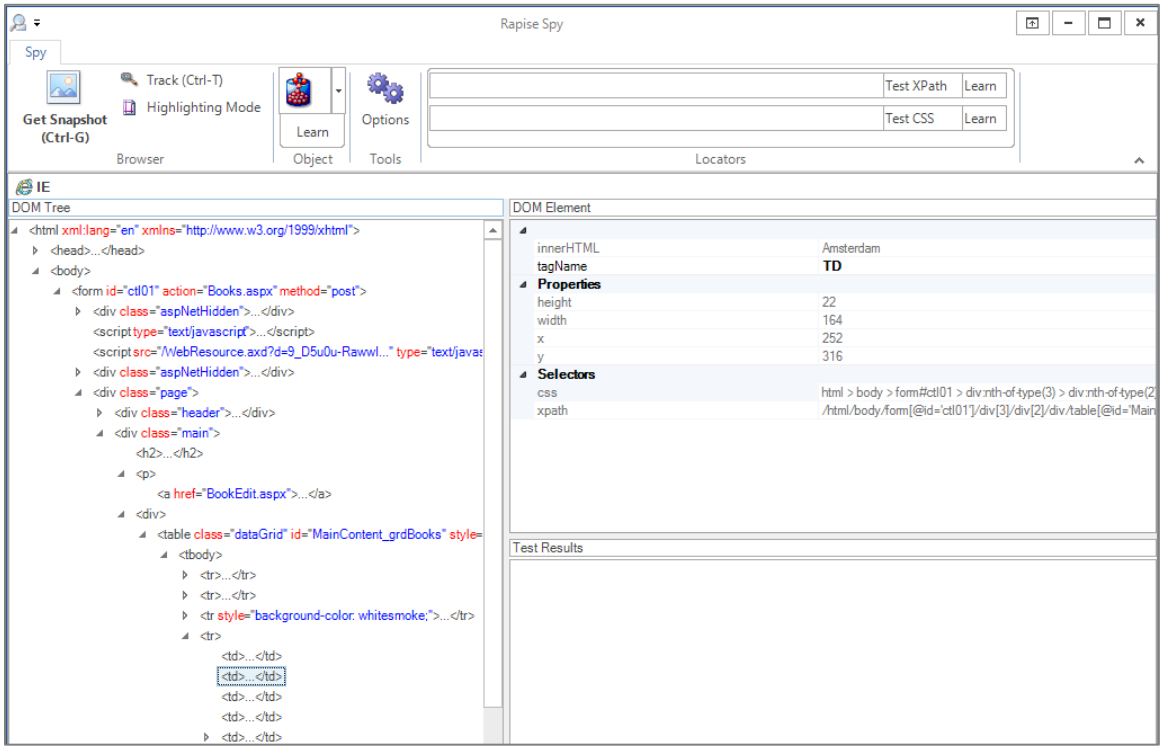
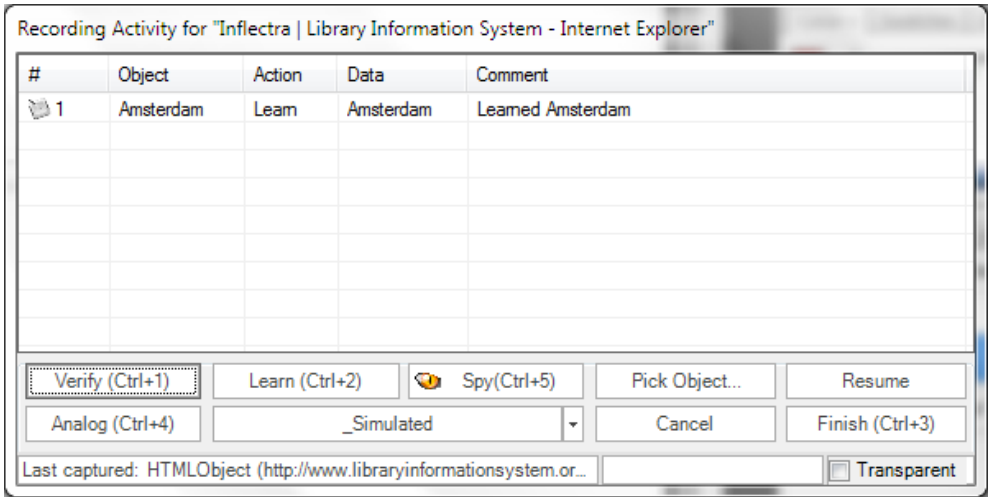


You can see all of the properties of this HTML element displayed on the right, specifically:

- The tagName is displayed as 'TD' (always upper case)
- The innerHTML of the element is displayed (Amsterdam)
- The CSS and XPath for locating this element is displayed

If you want to use this object in a Rapise test script, you can simply click the **Learn** button and the HTML element will be added to the Recording Activity Dialog:



Click **Finish** and the object will have been added to your test's Object Tree:

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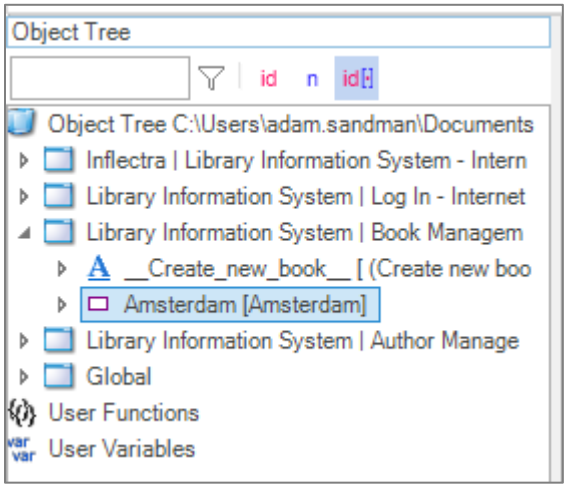
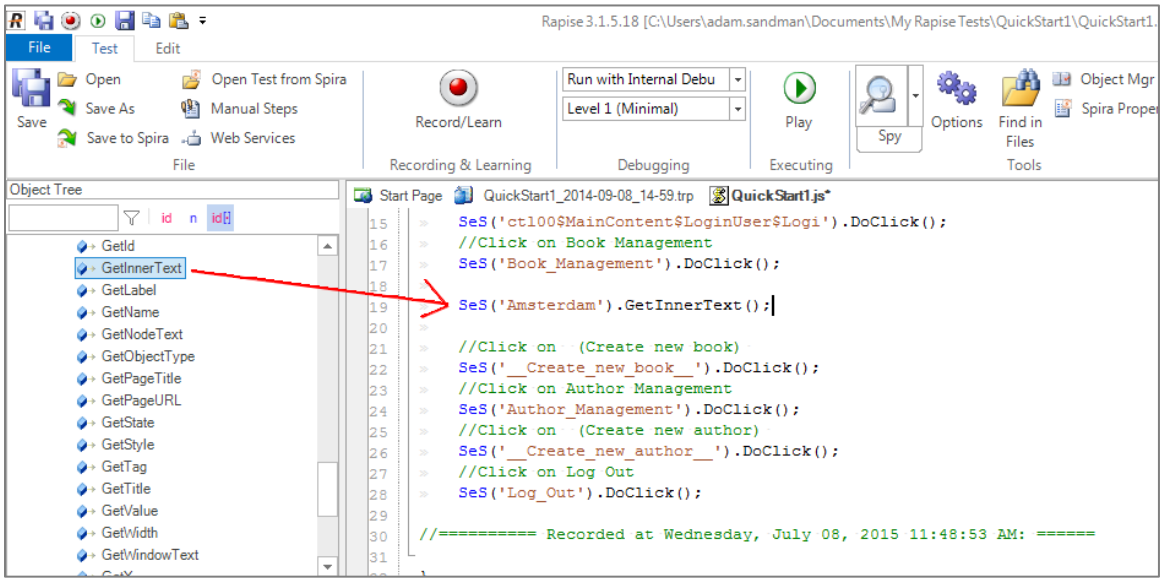


You can now expand this object and drag a test function to your test script. For example if you wanted to get the textual value of the cell in your test, drag the “GetInnerText” function into your test script:



2.2. Learning an Object from XPATH

In addition to letting Rapise automatically learn the object from the Web Spy, you can manually enter in XPATH or CSS queries to find matching elements on the page and then learn those for use in your test.

For example, suppose we want to dynamically find the row that has the cell containing Amsterdam and then click on its Edit hyperlink.

Open up the Web Spy as before:

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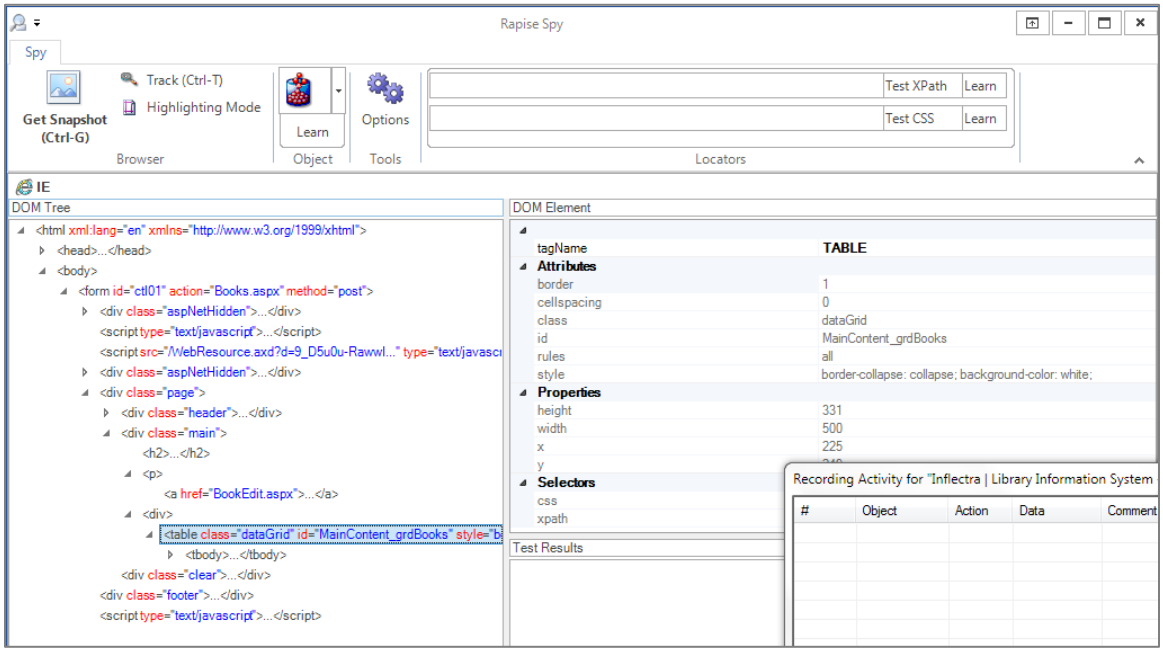
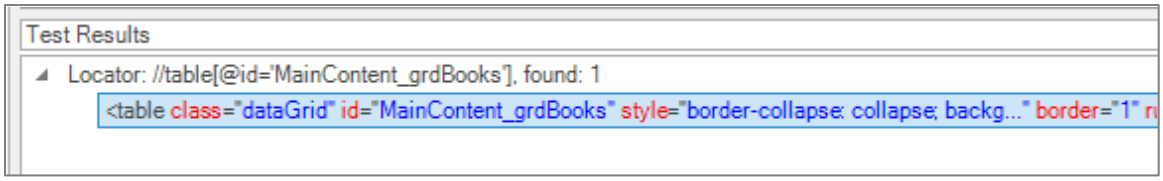


In the **Locators** section of the Web Spy, enter in the following to locate the table:

```
//table[@id='MainContent_grdBooks']
```

Now click on the **Test XPath** button to display the matching results:


Test Results
Locator: //table[@id='MainContent_grdBooks'], found: 1
<table class="dataGrid" id="MainContent_grdBooks" style="border-collapse: collapse; backg..." border="1"

Now that we have matched the table, we need to add dynamic XPath to find any row that has the cell containing 'Amsterdam' and find the edit link. You can expand the table and see the rows and cells visually and that will help us create the XPATH:

```
//table[@id='MainContent_grdBooks']//tr/td[text()='Amsterdam']/../td[5]/a
```

This XPath consists of the following elements:

1. Finds the table with the specified ID
2. Find any row inside that table that contains a cell with the text 'Amsterdam'
3. For any matching cell, get its parent row and inside the fifth cell, get any hyperlink

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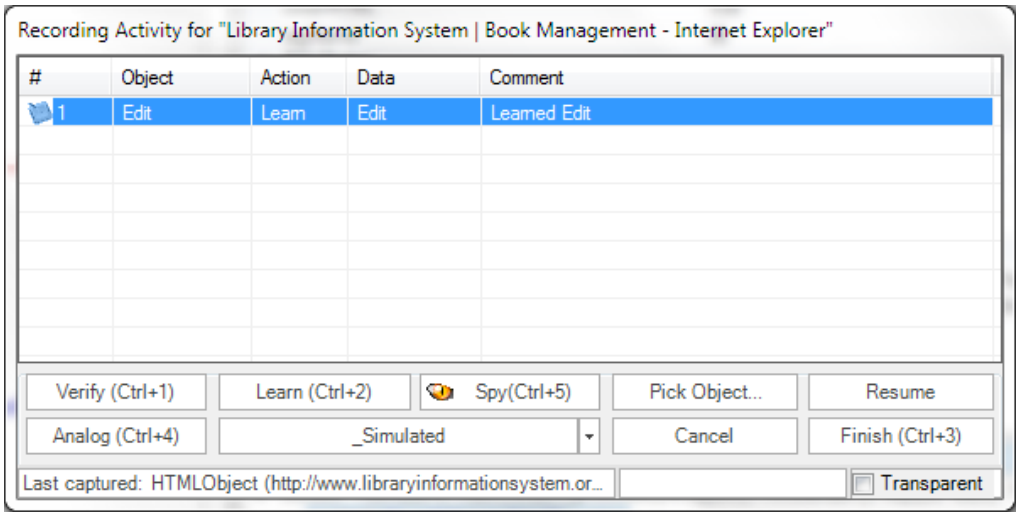
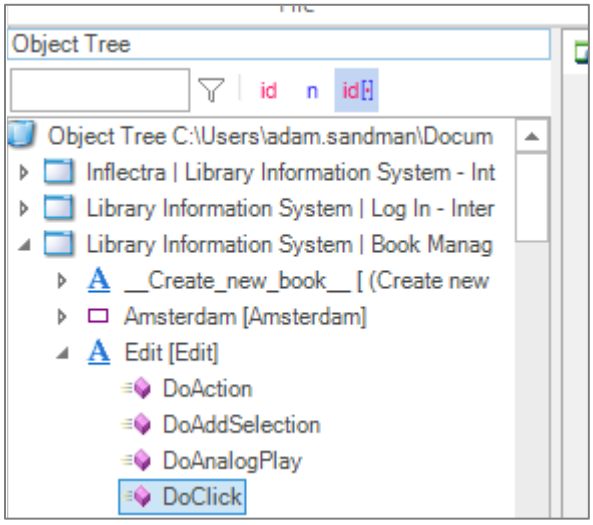
In this case that will correctly locate the Edit link for the book 'Amsterdam'. Now that we have the correct item identified, click on the '**Learn'** button to the right of the '**Test XPath**' button. That will now learn a new object that corresponds to the 'Edit Amsterdam' object:



Click Finish and the object will have been added to the Object Tree of the current test:



To click on this object, simply drag the 'DoClick' function for the new object from the Object Tree into the test script. This will cause the book details page for Amsterdam to be display during test playback:

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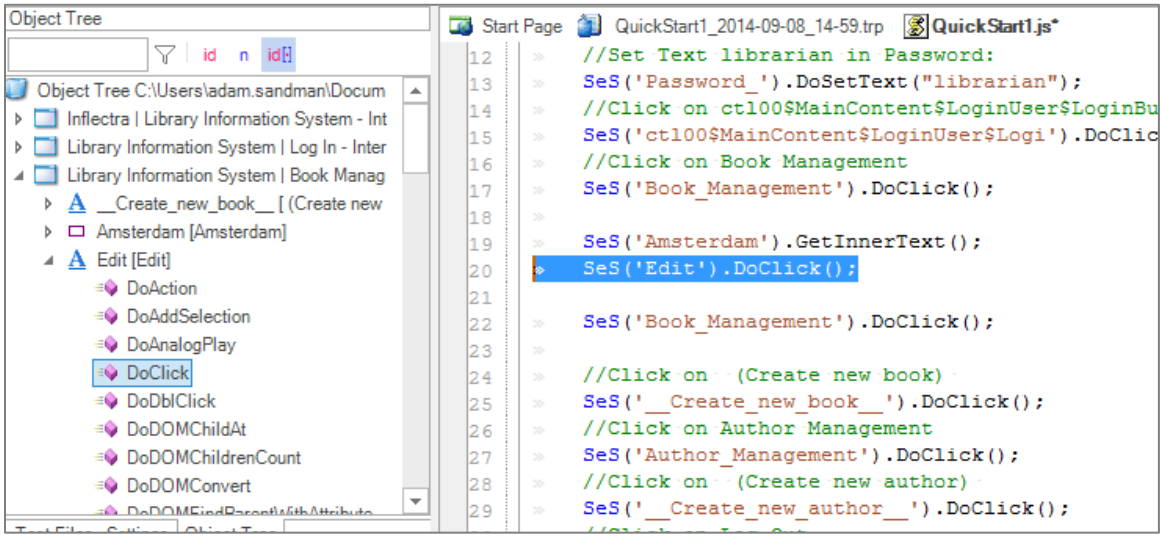


Since clicking on the Edit link will take you to a different page than where the 'Create New Book' link is available, in the example we have added a second instance of the:

```
SeS('Book_Management').DoClick();
```

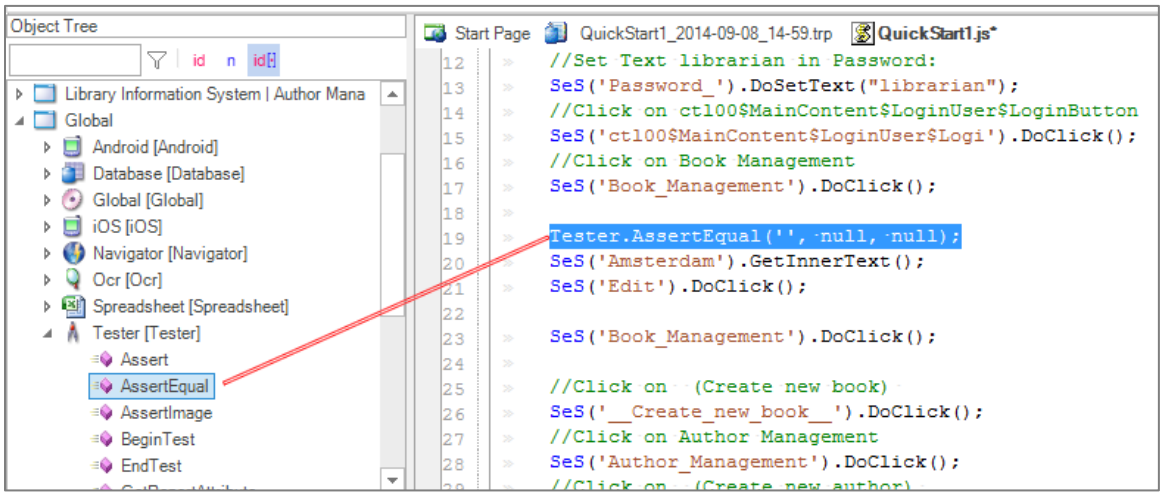
Command, so that Rapise goes back to the main book list page before executing the Create New Book step. If we did not do this, the test would have failed.

Now the line:

```
SeS('Amsterdam').GetInnerText();
```

by itself does not do anything, it just gets the text.

So to make the test more useful, we can use the global **Tester** object to add a step to verify this value. Drag the "AssertEqual" function from the Tester object to your test script just above the SeS("Amsterdam") line:



Now we need to just consolidate these two lines into the actual test. Using the script editor, change the two lines from:

```
Tester.AssertEqual('', null, null);
SeS('Amsterdam').GetInnerText();
```

To

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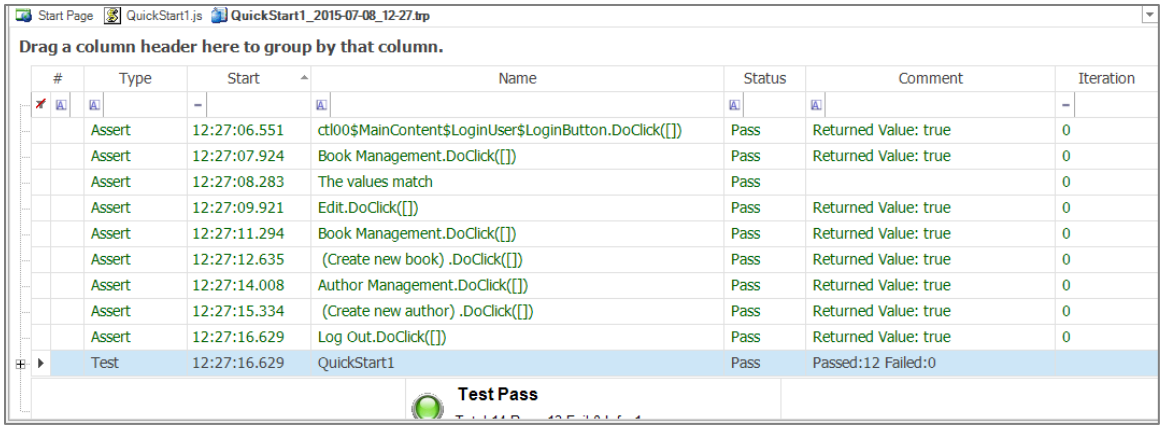
```
      Tester.AssertEqual('The values match', 'Amsterdam',
SeS('Amsterdam').GetInnerText());
```

Now click **Play** to playback the new test:



#	Type	Start	Name	Status	Comment	Iteration
	Assert	12:27:06.551	ctl00$MainContent$LoginUser$LoginButton.DoClick([])	Pass	Returned Value: true	0
	Assert	12:27:07.924	Book Management.DoClick([])	Pass	Returned Value: true	0
	Assert	12:27:08.283	The values match	Pass		0
	Assert	12:27:09.921	Edit.DoClick([])	Pass	Returned Value: true	0
	Assert	12:27:11.294	Book Management.DoClick([])	Pass	Returned Value: true	0
	Assert	12:27:12.635	(Create new book) .DoClick([])	Pass	Returned Value: true	0
	Assert	12:27:14.008	Author Management.DoClick([])	Pass	Returned Value: true	0
	Assert	12:27:15.334	(Create new author) .DoClick([])	Pass	Returned Value: true	0
	Assert	12:27:16.629	Log Out.DoClick([])	Pass	Returned Value: true	0
	Test	12:27:16.629	QuickStart1	Pass	Passed:12 Failed:0	

The test should now pass successfully.

3. Next Steps

Now we recommend that you take a look at the *Rapise User Manual*. This contains several more in-depth tutorials for using the system as well as an in-depth reference guide of all the different features available.

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